

TITLE of the INVENTION

"Digital filtering methods and devices "

TEXT of the ABSTRACT

In order to transform an input digital signal (x_n) into one or more output digital signals (y_n) containing even-indexed samples (y_{2n}) and odd-indexed samples (y_{2i+n}), this filtering method includes at least one iteration (506) which contains an operation of modifying even-indexed samples (y_{2n}) by a function (R) of weighted odd-indexed samples ($\alpha_{0,j} \cdot y_{2n+m_j}$) and an operation of modifying odd-indexed samples (y_{2n+1}) by means of a function (R) of weighted even-indexed samples ($\beta_{0,j} \cdot (y_{2n} - y_{2n+2})$). The weighted samples are obtained by means of at least one weighting operation. At least one of the weighting operations is applied to the difference between two consecutive even-indexed samples.

Application to the processing of images.

Figure 5.